

List of Figures

Chapter 1 – Introduction

Figure 1.1	Federal and NC Water Quality Regulatory Overview	1-7
Figure 1.2	NPDES Minimum Control Measures	1-10
Figure 1.3	Key Components of the NCGo1 Permit	1-13

Chapter 2 – E&SC Planning

Figure 2.1	Map of CCPCUAs	2-13
Figure 2.2	Land Quality Section of NCDENR Variance Request	2-15
Figure 2.3	NC Map showing counties with Trout (Tr) Designations	2-16
Figure 2.4	Temporary E&SC Measures that can be transitioned to Post-Construction Stormwater BMPs	2-18
Figure 2.5	NCDOT's 14 Divisions	2-19
Figure 2.6	LID and GI Considerations.....	2-20
Figure 2.7	GI and LID Case Study	2-21

Chapter 3 – Contract Projects

Figure 3.1	Steps to Follow before Developing the E&SC Plans.....	3-2
Figure 3.2	The Major Work Flow Steps of a BB Transportation Project	3-3
Figure 3.3	Steps to Follow before Developing the E&SC Plans.....	3-16
Figure 3.4	The Major Work Flow Steps of a DB Transportation Project.....	3-17
Figure 3.5	Typical Schedule for E&SC Design Engineer on a DB Project.....	3-18
Figure 3.6	Process for E&SC Plan Revisions During Construction.....	3-25
Figure 3.7	Steps to Follow before Developing the E&SC Plans.....	3-36
Figure 3.8	Major Work Flow Phases for Low Impact Bridge Projects	3-37
Figure 3.9	Steps to Follow before Developing the E&SC plans.....	3-48
Figure 3.10	The Major Work Flow Steps of an Operations Transportation Project.....	3-49
Figure 3.11	Steps to Follow before Developing the E&SC Plans.....	3-64
Figure 3.12	Operations Flow for E&SC Plans.....	3-65
Figure 3.13	Considerations During the Initial Stages of the Reclamation Plan Development	3-85
Figure 3.14	Method for Determining Minimum Buffer requirements for Borrow Pit Activities Adjacent to Jurisdictional Features	3-89

List of Tables

Chapter 1 – Introduction

Table 1.1 Keys to E&SC Planning and Design	1-4
Table 1.2 NC Water Permits	1-9
Table 1.3 ES&C Construction Objectives	1-12
Table 1.4 NCG01 NPDES Permit Stabilization Timeframes	1-13

Chapter 2 – E&SC Planning

Table 2.1 Water Quality Classifications Required for Sensitive Design Standards.....	2-4
Table 2.2 E&SC Key Concepts	2-7
Table 2.3 Falls Lake Watershed Ground Cover Requirements.....	2-11

Chapter 3 – Contract Projects

Table 3.1 Environmental Evaluations.....	3-86
Table 3.2 BMPs for Construction Site Pollutants.....	3-92

List of Appendices

Appendix A Turbidity Reduction Options Sheet	
Appendix B Division Preferences Table	
Appendix C Regional Seed Mixes that Provide Stabilization of Graded Areas	
Appendix D Design Build Submittal Guidelines	
Appendix E Spill Response Plan	
Appendix F Waste Handling and Disposal and Hazardous Management	

List of Acronyms

AOS	Apparent Opening Size
ARI	Average Recurrence Interval
BB	Bid Build
BMPs	Best Management Practices
C&G	Clearing and Grubbing
CAMA	Coastal Area Management Act
CCPCUA	Central Coastal Plain Capacity Use Area
CE	Categorical Exclusion
CEI	Construction, Engineering and Inspection
cfs	cubic foot per second
CICA	Construction Industry Compliance Assistance Center
CPESC	Certified Professional in Erosion and Sediment Control
CPSWQ	Certified Professional in Storm Water Quality
CWA	Clean Water Act
DB	Design Build
DCM	Division of Coastal Management
DEMLR	Division of Energy, Mineral and Land Resources
DEO	Division Environmental Officer
DMF	Division of Marine Fisheries
DOH	Division of Highways
DSWM	Division of Solid Waste Management
DWR	Division of Water Resources
E&SC	Erosion and Sediment Control
E&SC/SW	E&SC / Stormwater Certification Program
EA	Environmental Assessment
EIS	Environmental Impact Statement
EPA	Environmental Protection Agency
EroDes	Erosion Design Spreadsheet
ESAs	Environmentally Sensitive Areas
FMD	Facilities Management Division
GI/LID	Green Infrastructure and Low Impact Development
HQW	High Quality Water
LEDPA	Least Environmentally Damaging Practical Alternative
MCM	Minimum Control Measures
NCDOT	North Carolina Department of Transportation
NCWRC	North Carolina Wildlife Resources Commission
NOAA's	National Oceanic and Atmospheric Administration's
NPDES	National Pollutant Discharge Elimination System
ORW	Outstanding Resource Water
PDEA	Project Development and Environmental Analysis
PIST	Pipe Inlet Sediment Traps
PSRM	Permanent Soil Reinforcement Matting

List of Acronyms, cont.

RECP	Rolled Erosion Control Products
REU	Roadside Environmental Unit
RFC	Released for Construction
RFP	Request for Proposals
RIST	Rock Inlet Sediment Traps
ROW	Right-of-Way
PIST	Pipe Inlet Sediment Trap
RUSLE2	Revised Universal Soil Loss Equation, Version 2
SDOs	Stormwater Discharge Outfalls
SHPO	State Historic Preservation Office
SPCA	Sedimentation Pollution Control Act of 1973
SPCC	Spill Prevention Control and Countermeasure
SSCF	Special Sediment Control Fence
SWPPP	Stormwater Pollution Prevention Plan
TIP	Transportation Improvement Projects
TMDL	Total Maximum Daily Load
Tr	Trout Waters
TRSC-A	Temporary Rock Silt Check, Type A
TRSC-B	Temporary Rock Silt Check, Type B
TRSD-A	Temporary Rock Sediment Dam - Type A
TRSD-B	Temporary Rock Sediment Dam - Type B
UV	Ultraviolet
WS-I, WS-II, SA	Watershed Supply I, II and Shellfishing Waters